



PROPOSAL

Number # 012406SW/RW-2

TO:

Nextel Project

FOR:

Frontline ENG-350 LT ENG Rental Van

SUBMITTED BY:

Steve Williamson/Rich Wessner

DATE:

11/3/06

FRONTLINE ENG-350-LT NEWS VAN

<u>Item</u>	<u>Group</u>	<u>Description</u>
1.0	Chassis	New Ford E-350 Super Cargo Van including the following features / specifications: - Ford White clear coat paint - 9400 lbs. gross vehicle weight rating (GVWR) - 138" Wheelbase - 5.4 Liter V-8 EFI gasoline engine - o 250 horsepower @4500rpm - o 350 lbs of torque @ 2500 rpm - Heavy Duty 4 speed automatic overdrive transmission - Auxiliary Transmission Oil Cooler - 130 Amp Alternator - Halogen sealed beam headlights - 4 wheel anti-lock power brake system - Power steering - Heavy duty handling package including twin I-beam independent front suspension, front stabilizer bar, heavy duty front and rear gas filled shock absorbers. - Dual 12 volt batteries wired in parallel - LT 245/75R X 16 load range E heavy-duty all season radial tires - 16" Argent Steel wheels with argent center hubcaps - Spare tire and wheel mounted under rear of vehicle - 35 gallon fuel tank - Auxiliary fuel port for generator connection - Class 1 trailer-towing package - 3.55 rear axle ratio - Medium Platinum front / rear step bumper - 97 DB back-up alarm - Areotype LH / RH manual adjust flat glass mirrors with convex spotter - Tinted glass windows in side and rear doors, windshield is graduated tint - Standard interior package to include: - o Hi back seats with inboard arm rests & color keyed seat belts - o Black vinyl flooring in cab area - o Tilt steering - o Electronic AM/FM Stereo with Digital Clock - o Driver & Passenger air bags - o CFC-free air conditioning and heat - o Driver & Passenger side second generation air bags - 5 year Factory corrosion coverage - 3 year/36,000 Mile bumper to bumper Ford factory warranty with roadside assistance

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2.0	Roof Rack	Aluminum rooftop platform to mount communication antennas and access mast top equipment. Platform is constructed of all welded aluminum framing, and painted to match the color of the van. The work surface is bright aluminum diamond plate material. Platform does not cover the full length of the roof.
2.1	Ladder	Heavy duty aluminum roof access ladder installed on rear door.
2.2	Generator Compartment	Frontline ENG vans include a custom made seamless all aluminum compartment to house the generator. The generator compartment is located on the street side rear of the vehicle. The generator compartment features a locking handle. The compartment is continuously welded to prevent any leakage of fluid or gas into the interior of the vehicle.
2.3	Rear Area	Area inside rear doors is designed for equipment and misc. storage. Mast is also accessible from inside this area. Air compressor is housed in a custom fabricated shelf mounted above the generator compartment on the street side of the vehicle. Rear storage area floor covered with heavy-duty rubber flooring.
2.4	Interior	The interior of the van is fully insulated and finished as follows: R-11 Reflectix bubble pack insulation installed in walls and ceiling. Walls and ceiling are paneled with ¼” finish grade AC plywood. Floor is covered with ½” AC plywood throughout the van excluding the driver and passenger area. This flooring helps to reduce the interior noise level and acts as a thermal barrier to exterior heat. Walls and ceiling are covered with custom automotive fabric. Floor is covered with carpet. (carpet color matches van interior).

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2.5	Furnishings	Rack front operators console custom made from cabinet grade plywood. Console is finished with a light mica surface. Console extends across the front of racks 2 and 3. 1 roll around operators chair.
2.6	Equipment Racks	(3) equipment racks with a total of 64 standard 19.00 x 1.75" rack units for equipment installation. (refer to enclosed drawing for rack layout) (2) cooling fans (120 VAC) are installed in the trim section at the top of the racks. Ambient air is circulated through racks to keep the equipment cool.
2.7	I/O Panel	Frontline LT curbside aluminum I/O panel is machined and labeled with connectors per Frontline standard layout. Panel is mounted behind weather resistant door.
3.0	Power Panel	Custom power distribution panel made of aluminum with labels for all breakers and circuits. Panel includes: AC & DC circuit breakers for branch circuits Voltage and Current meters Generator/External Power Interlock Breakers The power panel is located adjacent to rack 1
3.1	Battery Charger	20 amp automatic battery charger/DC converter located in bottom of rack 3.
3.2	AC Outlets	(1) Interior AC plug strip located in bottom of rack 3. (1) weatherproof duplex 20 amp GFI AC outlet on exterior curbside of the vehicle.

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3.3	Generator	Onan CMM 5500 generator set including the following features: - 4-Cycle, OHV, 90-Degree V-twin 2 cylinder gasoline engine - Integrated housing design with coil spring vibration isolators - Enclosed muffler, provides easy maintenance and noise reduction - On board self-diagnostics to simplify troubleshooting - Digital regulation provides voltage stability as load changes - Output is 5500 watts (45.8 amps) @ 120 Volts, 60 Hz - Fuel Consumption: half load 0.60 gal/hr; full load 0.95 gal/hr. - OEM 2 Year Limited Warranty, 5-Year Drive Warranty. Generator includes protection package with automatic low oil pressure shutdown. All routine service and maintenance functions for the generator may be performed from outside the vehicle.
3.4	External Power	External "shore" power system with the following features and specifications: Single input 120 volt 30-amp system. Marine type chrome plated twist-lock male input connector with screw-down weather shield. 50' shore power cable.
4.0	Interior Lighting	(3) DC spotlights installed in the ceiling above equipment racks. Each light has on/off switch, and entire bank of spotlights may be dimmed by continuous dimmer control. (1) DC fluorescent light fixture ceiling mounted in rear maintenance area. Each ceiling mount fixture has an on/off switch. (1) DC fluorescent light fixture ceiling mounted in operations area. Each ceiling mount fixture has an on/off switch.
5.0	Exterior Lighting	The following lights are installed on the rooftop platform: (1) Flush mounted DC scene light on curbside (1) Flush mounted rear DC scene work light
6.0	Air Conditioning	13,500 BTU Duo-Therm roof mounted air conditioner with integral 5,600 BTU heat strip. Manual thermostat control.

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7.0	Mast	30' Will-Burt aluminum telescoping pneumatic mast installed behind racks for maximum vehicle stability and useable interior space.
7.1	Air System	120VAC 3/4 HP Gast air compressor. Custom oversize fully adjustable lubricator/regulator/water separator system. Compressor and lubricator installed in a compartment in the interior rear street side of the vehicle on top of the generator compartment. Maintenance drain valve installed at base of mast under vehicle, allows used oil and condensation to be drained out of the system.
7.2	Misc. Mast	Mast mounted aluminum bracket for installation of off-air antenna. Amber strobe and Flood light installed on mast top bracket.

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8.0	Safety/Security	Custom safety alarm system includes audible and visual alerts for mast up and antenna deployed. Audible alarm may be muted by engaging the dash-mounted push button switch. Note audible alarm may not be muted any time vehicle is in gear. Red warning lights installed on vehicle dash, power panel and I/O panel flash continuously when the mast is extended. Mast up/down control switch is installed in the I/O panel. Constant pressure must be applied to this switch to raise the mast. Mast retracts with one push of the button. Any time the vehicle is in gear, the mast down valve automatically returns to it's normal (open) position. It is therefore impossible for the mast to raise any time the vehicle is being driven. If the mast is raised and the vehicle is placed in gear the mast will begin to drop. Mast top 12 VDC flood light and amber strobe are illuminated at all times when mast is extended, with breakers on. 12 VDC hand held spot light installed inside operations area. Use to inspect area above van before raising mast at night and during times of poor visibility. Large red <i>Warning</i> sign mounted at mast control switch location, reminds operator to inspect area above the vehicle before raising the mast. One copy of "Look Up and Live" VHS instructional safety video is supplied with the vehicle. Frontline strongly recommends that every ENG operator view this tape as part of operator safety training before being approved to operate this van. Automatic carbon monoxide detector / alarm installed in operations area. One Halotron 5lb.Pro-Plus dry chemical fire extinguisher mounted in operations area.

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9.0	DSNG Package	N/A	
10.0	Video Equipment	1	Burst Electronics VS8x1 8x1 Video vertical interval switcher
		1	Burst Electronics RM-3 Rack adapter frame
		1	Sigma SS-2100-6 Module mounting frame with 6-slots
		2	Sigma VEQ-2105A Video DA, 1x6, Equalizing up to 1,500ft
		2	Sigma VDA-21 Video DA
		1	Marshall V-R82DP-2C Dual 8.4" Color LCD monitors
		1	Videotek DM-100 TV Tuner
		1	Videotek DAT-1 Rack Frame
		2	Videotek DAT-2 Blank Panels
11.0	Audio Equipment	1	ATI MX-101 3-channel mono mixer with tone generator and limiter
		1	ATI XP100 4-channel input expander
		1	ATI 21075 Rack adapter
		1	ATI WA100-1 Power supply
		1	Sigma ADA-21 Audio DA, 1x6
		2	Speco SP100 Shielded 45W Speakers

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12.0	Communications Equipment	1	ATI MX100 3-channel mono audio mixer
		1	ATI 21075 Rack adapter
		1	Comrex TCB-1 Telephone coupler
		1	ACS Model 6 IFB Beltpack
		1	Wohler AMP2A Analog speaker system. 1 stereo channel.
		1	Sigma ADA-21 Audio DA, 1x6
13.0	Test Equipment	1	Burst Electronics SG-7 Color Bar Generator with ID Option
		1	Installation, wiring, test and documentation of all the above listed audio, video, test, intercom and IFB equipment. All cables and wires are numbered and referenced to customer-approved flow diagrams. All audio, video and RF cables and construction techniques meet highest industry standards.

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14.0	Microwave Equipment	Microwave Radio Communications (MRC) Coderunner Analog Transmitter: -Frequency Range: 1.99 to 2.1 GHz and 2.45 to 2.50 GHz -Power Output: Analog 12W or 3W, Digital 6W or 2.5W -“Two Box” system using an antenna-mounted RF Unit and an interior van-mounted 2 RU control shelf. Control and IF signals travel via a coax with “N” connectors and power is supplied via a multi-conductor cable. -Includes a FMT.12 FM Video Modulator with 1 video input with 4.2 low pass filter and 2 field tunable frequency agile audio channels for Analog operation. CR2019T10AE3 1.9-2.5 GHz Microwave Transmitter Coderunner Microwave Radio Communications (MRC) Millennium 2A20SS Quad Pol. Transmit Antenna: -Frequency Range: 1.99 to 2.5GHz -Gain: 20 dBi Frontline 1.25” self coiling cable housing (Nycoil): -Transmitter RF & power cables -Pan/Tilt control cable -TV antenna cable -Flood light and strobe cables -Mast Camera cables Quickset 115VDC Pan/Tilt System: -QPT-90 with 90lb. load capacity and 435 degree pan rotation -C90VS-DC115 Rack mounted variable speed controller with front panel joystick. -Remote push-button control on curbside I/O panel
15.0	Satellite Equipment	N/A

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16.0	Optional Equipment Included	
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42' Mast Upgrade

D-Tec Mast Safety System

Pre wire Nycoil for Mast Camera